SW VGA Series

VGA and Stereo Audio Switchers



SERIES FEATURES

- Inputs: Two, four, six, eight, and twelve input models with 15-pin HD connectors; 3.5 mm stereo mini jacks for audio
- · Output: 15-pin HD connector for video; captive screw connector for audio
- 350 MHz (-3 dB) RGB video bandwidth
- Compatible with VGA-QXGA and HDTV component video signals
- **Auto-input switching** Automatically switches to the highest-numbered input with an active video signal.
- Input signal sensing Automatically detects which inputs have an active signal and reports that information through the RS-232 port for confirmation of active inputs on third party control systems.
- Switches balanced and unbalanced stereo audio
- Active PC audio buffering Converts unbalanced PC audio to balanced, line level signals, eliminating noise over long cable runs.
- Compatible with Extron VSW I AAP The optional VSW I AAP provides remote input connection and selection, which is useful in multiple-participant presentation environments.
- **Multiple control options** Switcher operations can be controlled through the front panel, RS-232, or contact closure.
- IR control The SW VGA Series switchers can be conveniently controlled via IR remote control with the optional Extron IR 102 kit.
- Internal universal power supply The 100-240VAC, 50/60 Hz, international power supply provides worldwide power compatibility.

+1.714.491.1500 / +800.633.9876 +1.714.491.1517 FAX

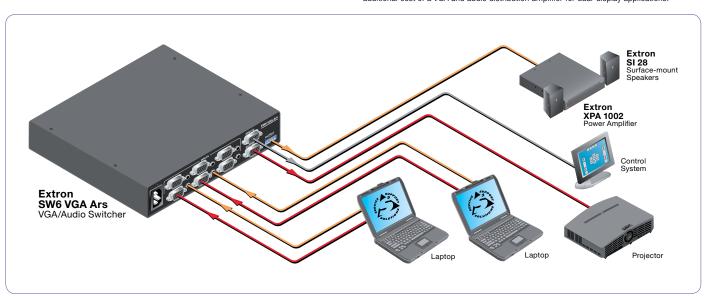
DESCRIPTION

The SW VGA Series are VGA switchers with two, four, six, eight, or twelve inputs. They are designed for applications where multiple high resolution computer video or HDTV component video signals must be switched to one or two displays. The SW VGA Series switchers are ideal for small to mid-sized applications where high resolution switching is needed. There are several key features common to all models in this series which benefit integrators and endusers alike.

All models feature input signal sensing, which automatically detects which inputs have an active signal and reports that information through the RS-232 port for confirmation of active inputs on third party control systems. This provides quick confirmation of active inputs on any thirdparty control system. Another feature common to all models is Auto-input switching, which automatically switches to the highest-numbered input with an active video signal. All switchers in this series can also be controlled via their front panel, RS-232, and contact closure remote control, and via the optional Extron IR 102 handheld remote control. All of the SW VGA models are housed in 1U, rack-mountable metal enclosures for easy integration into new or existing A/V environments.

All SW VGA Series switchers feature active PC audio buffering, which converts unbalanced PC audio to balanced, line level signals, eliminating noise over long cable runs. The switchers accept PC audio input on 3.5 mm mini stereo jacks for fast, easy connection with preterminated Extron VGA and audio cables. Balanced or unbalanced audio is output on captive screw connectors.

The SW8 VGA and SW12 VGA Series feature dual buffered video and audio outputs which simultaneously output program video and audio on two parallel outputs. This eliminates the additional cost of a VGA and audio distribution amplifier for dual-display applications.



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SW VGArs

VGA Switchers

UNIQUE FEATURES

• Switches VGA-QXGA signals on 15-pin HD connectors



SW6 VGArs

MODEL	VERSION DESCRIPTION	PART #
SW2 VGArs	Two Inputs, One Output	. 60-257-02
SW4 VGArs	Four Inputs, One Output	. 60-258-02
SW6 VGArs	Six Inputs, One Output	. 60-259-02

SW VGA Ars

VGA and Stereo Audio Switchers

UNIQUE FEATURES

- Switches VGA-QXGA and stereo audio signals on 15-pin HD connectors and 3.5 mm stereo mini jacks
- Active PC audio to balanced audio interfacing
- Dual VGA outputs on two 15-pin HD connectors and dual outputs on two captive screw connectors - SW8 VGA Ars and SW12 VGA Ars only



MODEL	VERSION DESCRIPTION	PART #
SW2 VGA Ars	Two Input VGA & Audio	60-257-22
SW4 VGA Ars	Four Input VGA & Audio	60-258-22
SW6 VGA Ars	Six Input VGA & Audio	60-259-22
SW8 VGA Ars	Eight Input VGA & Audio	60-902-21
SW12 VGA Ars	Twelve Input VGA & Audio	60-946-21

SW VGA Series Accessories

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit	page 858	60-190-01
CCR 204	Four-Button Contact Closure Remote	page 286	60-794-02
CCR 306	Six-Button Contact Closure Remote	page 287	60-795-02
KP 6	Keypad Remote Control For Use With 9-pin Contact Closure Port	page 288	60-111-20
VSW I AAP	Remote Input and Control Panel AAP for VSW 2VGA A and SW VGA rs / VGA Ars Series Switchers	page 286	70-529-11
IR 102 Remote Control Kit	IR to RS-232 or Contact Closure Conversion Kit	page 280	70-224-01
CSR 6	Captive Screw to RCA Female Audio Adapter	page 834	26-575-01

Continued →

VIDEO	
Gain	Unity
Bandwidth	
Crosstalk	
VIDEO INPUT	00 00 0 10 11112
	2, 4, 6, 8, or 12 (depending on the model) VGA-QXGA RGBHV, RGBS, RGsB,
itanibon olgina typo	RsGsBs computer video, and HDTV component video
	2, 4, 6, 8, or 12 female 15-pin HD
	1.0 Vp-p for Y of component video
	0.7 Vp-p for RGB and for R-Y and B-Y of component video
	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance	
Vertical frequency	
Return loss	
Input coupling	
VIDEO OUTPUT	
Number/signal type	
	1 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV
	component video (follows input type)
SW8/12 VGA Series	2 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs computer video, and HDTV
	component video (follows input type)
Connectors	
SW2/4/6 VGA Series	
SW8/12 VGA Series	
	1.0 Vp-p for Y of component video
Minimum/maximum levels	0.7 Vp-p for RGB and for R-Y and B-Y of component video
Impedance	
Return loss	
DC offset	
SYNC	
	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync
	RGBHV, RGBS, RGsB, RsGsBs, bi-level and tri-level sync (follows input)
Input level	1.0 V to 5.0 Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	
Output impedance	75 ohms
Max. propagation delay	47
SW2/4/6 VGA Series SW8/12 VGA Series	
Max. rise/fall time	34 113
SW2/4/6 VGA Series	4.2 ns
SW8/12 VGA Series	
Polarity	Positive or negative (follows input)
AUDIO — ARS AND A	MODELS ONLY
Gain	
	Unbalanced output: +6 dB; balanced output: +12 dB
	Unbalanced output: +0 dB; balanced output: +6 dB
Frequency response	
THD + Noise	
S/NCrosstalk	>90 dB at maximum output (unweighted)
	-45 dB @ 20 kHz, -72 dB @ 1 kHz or below 60 Hz
SW8/12 VGA Series	
Stereo channel separation	,,
SW2/4/6 VGA Series	
SW8/12 VGA Series	
AUDIO INPUT — ARS	AND A MODELS ONLY
Number/signal type	2, 4, or 6 (depending on the model) stereo, unbalanced
Connectors	2, 4, or 6 (depending on the model) 3.5 mm female stereo mini jacks; tip (L)
	ring (R), sleeve (Gnd)
	>10k ohms unbalanced, DC coupled
Nominal level Maximum level	- 10 GBA (210 LLIA)
	116 dRV (uphalanced) at 1% THD IN
SW2/4/6 VGA Series	
SW2/4/6 VGA Series SW8/12 VGA Series	+14 dBV, (unbalanced) at 1% THD+N
SW2/4/6 VGA Series SW8/12 VGA Series	

AUDIO OUTPUT — AI	RS AND A MODELS ONLY
Number/signal type	
	1 stores helphood/unhalanood
SW2/4/6 VGA Series SW8/12 VGA Series	2 ctores balanced/unbalanced
Connectors	2 Stereo, Data recording all recording and r
	(1) 3.5 mm captive screw connector, 5 pole
SW2/4/0 VGA Series	(2) 3.5 mm captive screw connectors, 5 pole
	50 ohms unbalanced, 100 ohms balanced
Nominal level	oo onnis unbalancea, 100 onnis balancea
SW2/4/6 VGA Series	+4 dBu (1.23 V) halanced
	-4 dBV (0.63 V), unbalanced
SW8/12 VGA Series	
	-10 dBV (316 mVrms), unbalanced
	Variable output's volume range (SW8/12 VGA Series only)
	0 to 100 (-84 dB to 0 dB), default = 100 = 0 dB
	Gain error (SW8/12 VGA Series only)
Marrian I - 1 - 1 (11; 7)	±0.1 dB channel to channel
	+28 dBu, balanced; +20 dBV, unbalanced at 1%THD+N
· · · · · · · · · · · · · · · · · · ·	+21 dBm, balanced; +18 dBm, unbalanced at 1%THD+N
CONTROL/REMOTE	- SWITCHER
Serial control port	
	RS-232, 9-pin female D connector (shared with contact closure)
	RS-232, 9-pin female D connector
	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	
Contact closure	2 = TX, 3 = RX, 5 = GND
Jonnaul Giusure	9-pin female D connector (shared with RS-232)
Contact closure	
Jonate Glosui C	1 = input 1, 4 = input 2, 6 = input 3, 7 = input 4, 8 = input 5, 9 = input 6;
	active when a pin momentarily shorts to ground
'Show Me" contact closure	Pin 5 of each VGA input connector. The input is active (selected) when pin 5
	momentarily goes to ground.
Program control	Extron's control/configuration program for Windows®
	Extron's Simple Instruction Set (SIS™)
GENERAL	
	100 VAC to 240 VAC, 50/60 Hz, 10 watts, internal
	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount	
3W2/4/6 VGA Series	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129
	60-604-01)
3W8/12 VGA Series	Yes, with included MBD 149 bracket kit, 70-077-03 Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125), or
·urniture mount	Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125), or
Engloouro tuno	through-desk mounting kit, part #70-077-02 (MBD 129)
Enclosure type	Enclosure dimensions (Depth excludes connectors.)
SW2/4/6 VGA Sprips	1.75" H x 8.75" W x 9.5" D (1U high, half rack wide)
	(4.4 cm H x 22.2 cm W x 24.1 cm D)
SW8/12 VGA Series	1.75" H x 17.5" W x 9.5" D (1U high, full rack wide)
7.7.5, 12 TOF CONTOURS	(4.4 cm H x 44.4 cm W x 24.1 cm D)
	(Depth excludes connectors)
Product weight	
SW2/4/6 VGA Series	2.5 lbs (1.1 kg)
SW8/12 VGA Series	
Shipping weight	
SW2/4/6 VGA Series	
	11 lbs (5 kg)
SW8/12 VGA Series	
/ibration	ISTA 1A in carton (International Safe Transit Association)
VibrationRegulatory compliance	
Vibration Regulatory compliance Safety	CE, C-tick, CUL, UL
/ibration	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI
/ibration	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI 30,000 hours
Vibration Regulatory compliance Safety Compliances MTBF Warranty	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI 30,000 hours 3 years parts and labor
//ibration Regulatory compliance Safety Compliances MTBF Warranty NOTE: All nominal levels are at ±10	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI 30,000 hours 3 years parts and labor %.
Vibration Regulatory compliance Safety Compliances MTBF Warranty	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI 30,000 hours 3 years parts and labor %.
//ibration Regulatory compliance Safety Compliances MTBF Warranty NOTE: All nominal levels are at ±10	CE, C-tick, CUL, UL CE, C-tick, FCC Class A, ICES, VCCI 30,000 hours 3 years parts and labor %.

Note: For complete specifications, please go to www.extron.com

